Subject: Re: Deleting a variable from a NetCDF file
Posted by Paul Van Delst[1] on Mon, 24 Jul 2006 21:02:26 GMT

alexzcervantes@gmail.com wrote:
> Hi,
>
> I am pretty new to idl, and I could find out an answer to my problem in
> the idl helper program.
>
> Does anyone know how to delete a variable from a NetCDF file?

I don't believe you can. At least, not via the netCDF API. Neither the C, F95, nor IDL
netCDF API has any details about deleting a variable from a file once it's in there. Just
creating, writing and reading one.

The Java API has a removeVariable method, but I don;t know if even that does what you want
(it removes a variable from a netCDF group, as opposed to a file)

paulv

--
Paul van Delst   Ride lots.
CIMSS @ NOAA/NCEP/EMC   Eddy Merckx
Ph: (301)763-8000 x7748
Fax:(301)763-8545

Subject: Re: Deleting a variable from a NetCDF file
Posted by alexzcervantes@gmail. on Mon, 24 Jul 2006 21:53:21 GMT

I was afraid of that.

How about overwriting a variable in a NetCDF file?

My problem is that I have to overwrite a variable in a NetCDF file. I
was thinking of deleting the variable, and then writing my new
variable.

Is there a flag that will allow me to just overwrite the variable?

Alex
Paul Van Delst wrote:
> alexzcervantes@gmail.com wrote:
>> Hi,
>>
>> I am pretty new to idl, and I could find out an answer to my problem in

>> the idl helper program.
>>
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> Paul van Delst   Ride lots.
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Subject: Re: Deleting a variable from a NetCDF file
Posted by Mark Hadfield on Mon, 24 Jul 2006 22:03:08 GMT
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alexzcervantes@gmail.com wrote:
> How about overwriting a variable in a NetCDF file?
>
> My problem is that I have to overwrite a variable in a NetCDF file. I
> was thinking of deleting the variable, and then writing my new
> variable.
>
> Is there a flag that will allow me to just overwrite the variable?

Will the new variable have the same data type and dimensions as the
original? Then just rename it (NCDF_VARRENAME) and then overwrite the
data (NCDF_VARPUT).

Otherwise you have to make a new file, copy over all the stuff you want
to keep, add the new stuff. The netCDF operators (NCO) are good for this
sort of thing:

  http://nco.sourceforge.net/

--
Mark Hadfield   "Kei puwaha te tai nei, Hoea tahi tatou"
m.hadfield@niwa.co.nz
National Institute for Water and Atmospheric Research (NIWA)

Subject: Re: Deleting a variable from a NetCDF file
Posted by Paul Van Delst[1] on Tue, 25 Jul 2006 14:35:05 GMT

Mark Hadfield wrote:
> alexzcervantes@gmail.com wrote:
>
>> How about overwriting a variable in a NetCDF file?
>>
>> My problem is that I have to overwrite a variable in a NetCDF file. I
>> was thinking of deleting the variable, and then writing my new
>> variable.
>>
>> Is there a flag that will allow me to just overwrite the variable?
>
>
> Will the new variable have the same data type and dimensions as the
> original? Then just rename it (NCDF_VARRENAME) and then overwrite the
> data (NCDF_VARPUT).

Also, do you want to overwrite the variable+data, or just the data associated wsith teh
variable? If the former, then Mark's suggestions will do the trick. If the latter, then
all you need to do is replace the data (using the varput routine).

paulv

> Otherwise you have to make a new file, copy over all the stuff you want
> to keep, add the new stuff. The netCDF operators (NCO) are good for this
> sort of thing:
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>

--
Paul van Delst   Ride lots.
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Subject: Re: Deleting a variable from a NetCDF file
Posted by alexzcervantes@gmail. on Wed, 26 Jul 2006 16:34:09 GMT

Thanks Paul!

Overwriting did the trick.

Alex
Paul Van Delst wrote:
> Mark Hadfield wrote:
>> alexzcervantes@gmail.com wrote:
>>
>>> How about overwriting a variable in a NetCDF file?
>>>
>>> My problem is that I have to overwrite a variable in a NetCDF file. I
>>> was thinking of deleting the variable, and then writing my new
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